

Atty's 23185

Pat. App. Not known - US phase of PCT/DE2003/002845

Amended Patent claims

1 1. (original) A method of continuously casting metal or
2 metal alloys, especially copper or copper alloys in which the
3 liquid metal flows from a heating vessel through a casting nozzle
4 into the casting pool of a continuous casting apparatus which is
5 provided with a traveling mold, characterized in that the casting
6 nozzle is configured as an immersion tube which projects into the
7 casting pool formed by the traveling mold sides.

1 2. (original) The method according to claim 1
2 characterized in that the immersion tube is matched in its
3 inclination to the position of the melt level in the casting pool
4 and is optionally controlled by feedback in response thereto.

1 3. (currently amended) The method according to claim 1
2 or 2 characterized in that the transport belts are slightly
3 inclined with respect to the horizontal, preferably between 3° and
4 45° and/or have a spacing which is greater than 20 mm.

1 4. (currently amended) The method according to ~~one of~~
2 ~~claims 1 to 3~~ 8 claim 1, characterized in that the liquid molten
3 metal is transferred from the furnace directly into the immersion
4 tube, preferably under pressure.

1 5. (original) A casting device for the continuous
2 horizontal casting of metal, comprised of a furnace (10), a device
3 for transferring the liquid molten metal and a traveling mold,
4 characterized in that the device for transferring the liquid molten
5 metal is an immersion tube (13) which is movable along its
6 longitudinal axis.

1 6. (original) The casting device according to claim 5
2 characterized in that the immersion tube (13), preferably along its
3 outer surface, has spacing sensors with which the relative position
4 of the immersion tube to the casting pool can be adjustably
5 controlled.

1 7. (currently amended) The casting device according to
2 claim 5-~~or~~-6 characterized in that the immersion tube is fixed
3 directly with the casting furnace (10, 11) and that the furnace is
4 movable along a path inclined to the horizontal so that the
5 immersion tube (13) is displaceable by the movement of the furnace.

1 8. (currently amended) The casting device according to
2 ~~one of claims 5 to 7~~ claim 5 characterized in that the immersion
3 tube (13) is arranged with an inclination relative to the
4 longitudinal axis of the casting gap and is displaceable.